

# CATALOG

<b>File</b>	8
<b>Op-Sys</b>	OS/390, VSE/ESA, BS2000/OSD
<b>Statement</b>	FIND
<b>Task</b>	<p>This view displays the catalog information of a specified file.</p> <p>In BS2000/OSD, the information retrieved is the same as returned by the BS2000/OSD system command /FSTAT or /SHOW-FILE-ATTRIBUTES.</p> <p>In VSE/ESA, if either VSAM-CATALOG or USER-CATALOG is specified, or OPTION = 'MASTER', information is returned from the appropriate VSAM catalog. Otherwise, information is returned only for files currently known to Entire System Server in its internal table - files in standard and partition standard/class labels, temporary labels defined before the // EXEC card, and files accessed during the current Entire System Server session.</p>

## Common Fields for all Operating Systems

Dictionary Field Name	F/L	Mu	DE	Remarks
ERROR-CODE	N3			
ERROR-TEXT	A58			
NODE	N5		D	
NODE-NAME	A16		D	
SYSTEM-MESSAGE-CODE	A10			
DSNAME	A54		D	Required in OS/390.
VOLSER	A6		D	
TYPE	A8		D	

## Additional Fields Supported for OS/390

Dictionary Field Name	F/L	Mu	DE	Remarks
DEVICE	B4			
PREFIX	A3		D	
SERIES	A8		D	

## Additional Fields Supported for OS/390 and VSE/ESA

Dictionary Field Name	F/L	Mu	DE	Remarks
CLASS	A4		D	
NUMBER-OF-VOLUMES	N3			Under VSE/ESA, valid only when information is being returned from VSAM catalogs.
OPTION	A8		D	
USER-CATALOG	A44		D	
VOLUME-SEQUENCE	N3			

## Additional Fields Supported for VSE/ESA

Dictionary Field Name	F/L	Mu	DE	Remarks
CLASS	A4		D	
DEVICE-TYPE	A4		D	Valid only when information is being returned from VSAM catalogs.
FILE-NAME	A7		D	Valid only when information is being returned from Entire System Server's internal file table.
LABEL-AREA	A8			
LIBRARIAN	A3		D	
VSAM-CATALOG	A8		D	Valid as a descriptor only for retrieving information from VSAM catalogs, and valid as a returned item only when information is being returned from Entire System Server's internal file table.

## Additional Fields Supported for BS2000/OSD

Dictionary Field Name	F/L	Mu	DE	Remarks
SYSTEM-CODE	B2			
FILE-SIZE	N7			
STATE	A6		D	Search criteria only.
SUPPORT-TYPE	A9		D	Search criteria only.
BACKUP-TYPE	A11		D	Search criteria only.
ACCESS-TYPE	A5		D	Search criteria only.
FCBTYPE	A11		D	Search criteria only.
PASSWORD-OPTION	A9		D	Search criteria only.
SHARE	A3		D	Search criteria only.
GEN	A3		D	Search criteria only.
BLOCK-CONTROL-OPTION	A21		D	Search criteria only.
CREATION-RANGE	A19		D	Further define range.
EXPIRATION-RANGE	A19		D	Further define range.
LAST-ACCESS-RANGE	A19		D	Further define range.
EXTENT-RANGE	A13		D	Further define range.
SIZE-RANGE	A19		D	Further define range.
FREE-SIZE-RANGE	A19		D	Further define range.

## Relevant Error Codes

Code	Text	OS/390	VSE/ESA	BS2000/OSD
530	Access denied by Security Facility.			X
562	Catalog entry not found.	X		
565	Syntax error in dataset name.			X
566	Syntax error in catalog name.	X		
567	Invalid OPTION, specify LONG or USERCAT	X		
604	No volumes specified.			X
699	Not enough main storage available.			X
701	DSNAME missing.			X
722	Requested dataset not found.			X
733	User ID does not exist.			X
750	Invalid operand within operand list.			X
786	Unable to obtain / release storage for CSI work area.	X		
787	CSI request failed, Module :1:, Reason :2:, RC :3:	X		
788	Unable to substitute :1:, RC :2:	X		
789	Unable to get UCB copy for :1:, RC :2:	X		
799	Entire System Server internal error.			X
996	Volume not online.			X

## Field Descriptions

Field Name	Type/Length	Operating System
ACCESS-TYPE	(A5)	BS2000/OSD

List all files accessible by READ or WRITE. Possible options:

- R or READ
- W or WRITE

Field Name	Type/Length	Operating System
BACKUP-TYPE	(A11)	BS2000/OSD

Search criteria only, this field is returned unchanged. Files of the specified type(s) are listed. Possible types: A, B, C, D, E. Multiple types must be given as: A,B,C.

Field Name	Type/Length	Operating System
BLOCK-CONTROL-OPTION	(A21)	BS2000/OSD

Search criteria only, this field is returned unchanged. Retrieves files with specified control type. Possible values:

- DATA
- NO
- NONE
- PAMKEY

Multiple values must be separated by commas and enclosed in brackets, for example: (PAMKEY,DATA).

Field Name	Type/Length	Operating System
CLASS	(A4)	OS/390, VSE/ESA

Device class (for example, DASD).

Field Name	Type/Length	Operating System
CREATION-RANGE	(A19)	BS2000/OSD

Further defines ranges for catalog entries. Lists all files with a creation date as follows:

Creation Date	Explanation
(,YY-MM-DD)	Files created before the specified date.
(YY-MM-DD,)	Files created since the specified date.
(YY-MM-DD,YY-MM-DD)	Files created between the specified dates.
YY-MM-DD	Files created on the specified date.

Field Name	Type/Length	Operating System
DEVICE	(B4)	OS/390

The internal UCBTYP device code which identifies the device type on which the dataset resides.

Field Name	Type/Length	Operating System
DEVICE-TYPE	(A4)	VSE/ESA

The type of the device where the NONVSAM file resides.

Field Name	Type/Length	Operating System
DSNAME	(A54)	OS/390, VSE/ESA, BS2000/OSD

Dataset name or dataset name prefix.

<b>OS/390</b>	<p>If the value specified is a prefix, information on all datasets with that prefix (including DSNAME itself) is retrieved (see the field PREFIX). As an extension to the search criteria described in Search Criteria with the FIND Statement in Section Getting Started, a double asterisk (**) may be used to represent zero or more qualifiers, whereas a single asterisk is used to specify either a qualifier or one or more characters within a qualifier. A double asterisk cannot precede or follow any characters; it must be preceded or followed by either a period or a blank.</p> <p><b>Note:</b> Dataset names are returned in the order of their corresponding catalog records, i.e. not necessarily in ascending order.</p>
<b>BS2000/OSD</b>	This field specifies the file name. An asterisk * can be used as wildcard as in the /FSTAT command.

Field Name	Type/Length	Operating System
EXPIRATION-RANGE	(A19)	BS2000/OSD

Further defines ranges for catalog entries. List files with an expiration date as follows:

Expiration Date	Explanation
(,YY-MM-DD)	Files expired before specified date.
(YY-MM-DD,)	Files expired since specified date.
(YY-MM-DD,YY-MM-DD)	Files expired between the specified dates.
YY-MM-DD	Files expired on the specified date.

Field Name	Type/Length	Operating System
EXTENT-RANGE	(A13)	BS2000/OSD

Further defines ranges for catalog entries. List files with number of extents within a given range.

(,n)	Files with fewer extents than specified number.
(n,)	Files with more extents than specified number.
(n,m)	Files with extents between specified numbers.
n	Files with n extents.

Field Name	Type/Length	Operating System
FCBTYPE	(A11)	BS2000/OSD

Search criteria only, this field is returned unchanged. List all files with specified type(s).  
Possible options:

- **B** or BTAM
- **I** or ISAM
- **N** or NONE
- **P** or PAM
- **S** or SAM

Specification of multiple types is possible, for example, (**P** , **I**).

Field Name	Type/Length	Operating System
FILE-NAME	(A7)	VSE/ESA

File name as specified in the DLBL statement for the dataset.

Field Name	Type/Length	Operating System
FILESIZE	(N7)	BS2000/OSD

Number of PAM pages allocated by a file.

Field Name	Type/Length	Operating System
FREE-SIZE-RANGE	(A19)	BS2000/OSD

Further defines ranges for catalog entries. List files with a number of free PAM pages expressed as follows:

<b>(,n)</b>	Files with fewer free pages than specified number.
<b>(n,)</b>	Files with more free pages than specified number.
<b>(n,m)</b>	Files with free pages between specified numbers.
<b>n</b>	Files with n free pages.

Field Name	Type/Length	Operating System
GEN	(A3)	BS2000/OSD

Specify YES to list the files of a generation group.

Field Name	Type/Length	Operating System
LABEL-AREA	(A8)	VSE/ESA

Indicates the LABEL AREA where the LABEL is situated. Possible values:

Value	Explanation
PARSTD	Partition standard.
STD	Standard.
TEMP	Temporary.

Field Name	Type/Length	Operating System
LAST-ACCESS-RANGE	(A19)	BS2000/OSD

Further defines ranges for catalog entries. List files with last access date within a time range given as follows:

(,YY-MM-DD)	Files accessed before specified date.
(YY-MM-DD,)	Files accessed since specified date.
(YY-MM-DD,YY-MM-DD)	Files accessed between the specified dates.
YY-MM-DD	Files accessed on the specified date.

Field Name	Type/Length	Operating System
LIBRARIAN	(A3)	VSE/ESA

Possible options:

Option	Explanation
NO	If dataset is not a VSE/ESA LIBRARIAN file.
YES	If dataset is a VSE/ESA LIBRARIAN file.

Field Name	Type/Length	Operating System
NUMBER-OF-VOLUMES	(N3)	OS/390, VSE/ESA

Number of volumes of dataset.

Field Name	Type/Length	Operating System
OPTION	(A8)	OS/390, VSE/ESA

Possible options:

Option	Explanation
LONG	Scan entire catalog. This is required if a file name value such as *MACLIB* is specified. The catalog whose name is given in USER-CATALOG is scanned. If the user catalog name is not specified, the system catalog is scanned (OS/390 only).
MASTER	Indicates that data is to be retrieved from the VSAM master catalog (VSE/ESA only).
USERCAT	Return names of all user catalogs in the USER-CATALOG field (OS/390 only).

Field Name	Type/Length	Operating System
PASSWORD-OPTION	(A9)	BS2000/OSD

List the files with password options expressed as follows:

- **E** or EXPASS
- **N** or NONE
- **R** or RDPASS
- **W** or WRPASS

Multiple options can be specified, for example: (**R,N**).

Field Name	Type/Length	Operating System
PREFIX	(A3)	OS/390

Possible options:

Option	Explanation
YES	Default. Information on datasets with the value of the DSNNAME field as prefix is retrieved.
NO	Value of the DSNNAME field is taken as absolute dataset name, not a prefix.

Field Name	Type/Length	Operating System
SERIES	(A8)	OS/390

Device series (for example, 3330-1).

Field Name	Type/Length	Operating System
SHARE	(A3)	BS2000/OSD

Possible options:

Option	Explanation
NO	List non-shareable files.
YES	List shareable files.

Field Name	Type/Length	Operating System
SIZE-RANGE	(A19)	BS2000/OSD

Further defines ranges for catalog entries. List files with size within a given range. Size means number of PAM pages:

<b>(,n)</b>	Files smaller than specified number.
<b>(n,)</b>	Files larger than specified number.
<b>(n,m)</b>	Files with size between specified numbers.
<b>n</b>	Files of size n.

Field Name	Type/Length	Operating System
STATE	(A6)	BS2000/OSD

Search criteria only, this field is returned unchanged. Specifies state of file. Possible options:

Option	Explanation
<blank>	List all files.
NOCLOS	List all open files.

Field Name	Type/Length	Operating System
SUPPORT-TYPE	(A9)	BS2000/OSD

Active search criteria. List all files that are on public or private discs or on tapes. Possible options:

Option	Explanation
PRV	Private.
PUB	Public.
TAP	Tapes.

These values can also be combined, for example:

<b>(PUB,PRV)</b>	Public and private.
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The following values are returned: PUBLIC, PRDISC, MIGRAT or TAPE. MIGRAT indicates migrated files.

Field Name	Type/Length	Operating System
TYPE	(A8)	OS/390, VSE/ESA, BS2000/OSD

Dataset type. Possible values:

<b>OS/390</b>	ALIAS AIX CLUSTER DATA GDG GDS INDEX NONVSAM PATH USERCAT	Alias. Alternate index VSAM cluster. VSAM data component. Generation data group Generation dataset VSAM index component. Non-VSAM dataset. VSAM path User catalog.
<b>BS2000/OSD</b>	FGG	File generation group.
<b>VSE/ESA</b>	DA ISAM SAM VSAM	Direct-access dataset. ISAM dataset. SAM dataset. VSAM dataset.

Field Name	Type/Length	Operating System
USER-CATALOG	(A44)	OS/390, VSE/ESA

OS/390 only: name of the user catalog in which the dataset is cataloged (see also OPTION field).

VSE/ESA only: name of the VSAM catalog from which data is to be retrieved. VSAM-CATALOG takes precedence over USER-CATALOG.

Field Name	Type/Length	Operating System
VOLSER	(A6)	OS/390, VSE/ESA, BS2000/OSD

Volume serial number of dataset. In BS2000/OSD, this field supports search criteria. In VSE/ESA, when returning information from the internal file table, the field will be blank for VSAM files.

Field Name	Type/Length	Operating System
VOLUME-SEQUENCE	(N3)	OS/390, VSE/ESA

Volume sequence (tape datasets only).

Field Name	Type/Length	Operating System
VSAM-CATALOG	(A8)	VSE/ESA

For internal file table requests, the DLBL for the VSAM catalog for a VSAM file. It will be blank for a non-VSAM file.

For VSAM catalog retrieval requests, the DLBL for the VSAM catalog from which data is to be retrieved. VSAM-CATALOG takes precedence over USER-CATALOG.

## Example: Using CATALOG View

Assume the following datasets exist:

- A.B.C
- A.B.C.D
- A.B.C.E

The example program ...

```
FIND CATALOG WITH
      DSNAME=<....>
      PREFIX=<....>
      DISPLAY DSNAME
```

... returns the following information:

DSNAME	PREFIX	RETURNED DSNAMEs
A.B.C	NO	A.B.C
A.B.C	YES	A.B.C
		A.B.C.D
		A.B.C.E
A.B	YES	A.B.C
		A.B.C.D
		A.B.C.E
A.B	NO	(none) Error 5562 - Catalog entry not found.

DSNAME	PREFIX	RETURNED DSNAMEs
A.B.C	NO	A.B.C
A.B.C	YES	A.B.C
		A.B.C.D
		A.B.C.E
A.B	YES	A.B.C
		A.B.C.D
		A.B.C.E
A.B	NO	(none) Error 5562 - Catalog entry not found.